

AMENDMENTS TO THE CLAIMS:

This listing of claims replaces all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A system comprising:

a first sensor to detect at least one of a magnetic field and an electrical field, the first sensor comprising first outputs to output first sensor signals when a field is detected;

a first signal modulator to receive first sense signals that correspond to the first sensor signals from the first sensor, the first signal modulator having first and second control states, wherein in the first control state, the first signal modulator is configured to output the first sense signals, and, wherein in the second control state, the first signal modulator is configured to output inverted first sense signals;

a device configured to receive and process the first sense signals or the ~~first~~ inverted first sense signals;

a second sensor to detect at least one of a magnetic field and an electrical field, the second sensor comprising second outputs to output second sensor signals when a field is detected; and

a second signal modulator to receive second sense signals that correspond to the second sensor signals from the second sensor, the second signal modulator having the first and second control states, wherein in the first control state, the second signal modulator is configured to output the second sense signals, and, wherein in the second control state, the second signal modulator is configured to output ~~the~~ inverted second sense signals;

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